000 000 000 000 000 000				PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY YYY YYY YYY YYY YYY YYY YYY YY
UUU UUU UUU UUU UUU		EEE EEEEEEEEEEE EEEEEEEEEEE EEE EEE	111 111 111 111 111 111	PPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	444 444 444 444 444 444 444
UUU	UUU		††† ††† ††† ††† ††† †††	PPP PPP PPP PPP PPP PPP	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$	YYY YYY YYY YYY YYY YYY

\$	AAAAAA AA AA AA AA AA AA AA AA AA AA AA AA AAAAAAAA		\$	\$	\$	55555555555555555555555555555555555555	000000 000000 00 00 00 00
		\$					

SA

SATSSS50 Table of contents	SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00	Page
(1) 56 (1) 116 (1) 150 (1) 221 (1) 297 (1) 390 (1) 621 (1) 679	DECLARATIONS CONDITION TABLES TM_SETUP, TM_CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM_CONDS VERIFY VFY_CLEANUP BUICD_CLUST_SUBROUTINE	

SAT

.TITLE SATSSS50 SATS SYSTEM SERVICE TESTS SASCEFC (SUCC S.C.)

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSSSO TO TEST SUCCESSFUL OPERATION OF THE \$ASCEFC SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: DEC. 1977

MODIFIED BY:

VERSION 1.5 : 25-MAY-79

01 LDJ 10/11/79 Fixed bug caused by DIB\$K\_LENGTH change ACG052.RNO mem

SATSSS50 V04-000

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:32:01 EUETPSY.SRCJSATSSS50.MAR;1
                                                                                                                                                                                                                                       Page
                                       PSECT RODATA, RD, NOWRT, NOEXE, LCNG
TEST_MOD_NAME:: STRING C, <SATSSS50> : TEST MODULE NAME
TEST_MOD_NAME_D: STRING I, <SATSSS50> : TEST MODULE NAME DESCRIPTOR
MSG1_INP_CTL: STRING I, <SSASC! 4ZW: CONDITIONS:>
  00000000
0000
0009
0019
0039
0039
0051
0065
0079
008D
00AC
00BB
00CO
00C5
                                                                                                                                                   FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                                                                 STRING I < *SSASC!4ZW: !AS>
                                         MSG3_ERR_CTL::
                                                                                                     I, < *SSASC!4ZW: !AS>
; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR

I, <SATSSS50_CRE> ; CREATED PROCESS NAME

I, <SATSSS50_CLA> ; CLUSTER A NAME

I, <SATSSS50_CLB> ; CLUSTER B NAME

I, <SYSTST$RES:SATSUT04.EXE> ; IMAGE NAME FOR CREATED PROC

CPULM.0

BYTLM.512 ; BYTE LIMIT FOR BUFFERED I/O

FILLM.2 ; OPEN FILE COUNT LIMIT

PGFLQUOTA.10 ; PAGING FILE QUOTA

PRCLM.2 ; SUBPROCESS QUOTA

TOELM.3 ; TIMER QUEUE ENTRY QUOTA
                                         CREPRN:
                                        CLUS NAME A:
CLUS NAME B:
IMAGNAM:
                                                                                  STRING
                                                                                  STRING
                                                                                  STRING
                                                                                                    CPULM, 0
BYTLM, 512
FILLM, 2
PGFLQUOTA, 10
PRCLM, 2
TQELM, 3
                                         QUOTALIST:
                                                                                  SQUOTA
                                                                                  SQUOTA
                                                                                  SQUOTA
                                                                                  SQUOTA
                                                                                  SQUOTA
                                                                                                                                                  TIMER QUEUE ENTRY QUOTA
DEFINES END OF LIST
                                                                                  SQUOTA
                                                                                  SQUOTA
                                                                                                     LISTEND
```

SATSSS50 V04-000

SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1 101 .PSI
102 PRIVMASK:
103 MBXCHAN:
104 MBXCHANINFO:
105
106
107
108 MBXUNIT:
109 MBXBUFF:
110 ASCTOT:
111 OTHER EFN:
112 CLUS MASK:
113 CLUS STATE:
114 FLAGS: .PSECT RWDATA, RD, WRT, NOEXE, LONG ADDR OF PRIVILEGE MASK (IN PHD) CHAN NO. FOR MAILBOX FOR CREATED PROCESS CHANNEL INFO RETURNED BY GETCHN .BLKQ .BLKL MBXCHANINFO: .LONG DIB\$K\_LENGTH .ADDRESS .+4 .BLKB DIB\$K\_LENGTH SAVE AREA FOR MAILBOX UNIT NUMBER MAILBOX BUFFER FOR CREATED PROCESS NO. OF ASCEFC'S (REF COUNT) FOR CLUSTER A SAVE AREA FOR "OTHER THAN SUBJECT" EFN CLUSTER MASK : USED TO SET CLUSTER A STATE OF CLUSTER A GEN. PURP. FLAGS; BIT DEFINITIONS ABOVE .BLKL STRING 0.120 0000010D 00000111 00000115 00000119 .BLKB 010D 0111 0115 0119 .BLKL .BLKL .BLKL .BYTE

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 CONDITION TABLES 5-SEP-1984 04:32:01
                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSSSO.MAR;1
                                                                                                                                 (1)
                                                                                                                         Page
                                     .SBTTL CONDITION TABLES
                                     ***** CONDITION TABLES FOR ASCEFC SYSTEM SERVICE *****
                                              1,LONG, <PERM>,-

<PERMANENT>,-
                                     COND
                                                 <TEMPORARY> . -
00000000
                                                                             : PERMANENT CLUSTER
: TEMPORARY CLUSTER
                                                    . LONG
                                              COND
                                     COND
                                              3.NOTARG. < REFERENCE COUNT FOR SUBJECT CLUSTER > .-
                                                 <ZERO>,-
                                                 <ONE>,-
<GREATER THAN ONE (TWO)>,-
02 01 00
                                                    .BYTE
                                                                   0.1.2
                                              4.LONG.<EFN>,-
<EVENT FLAGS 64-95 (EV FLAG GROUP 2)>,-
<EVENT FLAGS 96-127 (EV FLAG GROUP 3)>,-
                                     COND
00000040
                                                                             : EVENT FLAG GROUP 2
: EVENT FLAG GROUP 3
                                                    . LONG
                     144
145
146
147
148
                                                    .LONG
                                     COND
                                              5, NULL
       00000000
                                     .PSECT SATSSSSO, RD, WRT, EXE
```

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
SATSSS50
V04-000
                                                                                                   .SBTTL TM_SETUP, TM_CLEANUP
                                                                                        FUNCTIONAL DESCRIPTION:
                                                                                        TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF TEST MODULE EXECUTION.
                                                                 CALLING SEQUENCE:
                                                                                                   BSBW TM_SETUP
                                                                                                                               BSBW TM_CLEANUP
                                                                                        INPUT PARAMETERS:
                                                                                                   NONE
                                                                                        IMPLICIT INPUTS:
                                                                                                   NONE
                                                                                        OUTPUT PARAMETERS:
                                                                              171
172
173
                                                                                                   NONE
                                                                                        IMPLICIT OUTPUTS:
                                                                                                  TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED: ALL PRIVILEGES ACQUIRED.
                                                                                        COMPLETION CODES:
                                                                                                   EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                                                             182
183
184
186
187
188
190
191
193
196
197
198
199
200
                                                                                        SIDE EFFECTS:
                                                                                                   SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                                                                     TM_SETUP::
                                                          D4 D4 D4 DE0
                                                                                                                                                               INITIALIZE
                                                                                                                                                               .. CONDITION
                                                                                                                                                               .... TABLE
                                                                 0006
0008
0000
0000
0018
0020
                                                                                                   CLRL
                                                                                                                                                                               REGISTERS
                                                                                                                 MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC_TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                                                   BSBW
        00000000°EF
                                                                                                   MOVAL
                                                                                                   INSV
                                                                                                                TO.5$, KRNL

#CTL$GL PHD.R9

PHD$Q PRIVMSK(R9), PRIVMASK; GET PRIV MASK ADDRESS
FROM.5$; BACK TO USER MODE

ADD.ALL

#ERNEL MODE TO ACCESS PHD

GET PRIV MASK ADDRESS
FROM.5$; GET PRIV MASK ADDRESS

FROM.5$; BACK TO USER MODE

GET ALL PRIVILEGES
                                                                                                   MODE
                         59 0000000°9F 69
                                                          DO
                                                                                                   MOVL
                                                                                                   MOVAL
```

MODE PRIV

SA

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:32:01
                                                                                                                    VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSSO.MAR;1
                                                                                                                                                                                    (1)
```

.SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP : ++ FUNCTIONAL DESCRIPTION: CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE. CALLING SEQUENCE: BSBW CONDX BSBW CONDX\_CLEANUP WHERE X = 1,2,3,4,5 016B 016B 016B 016B 016B 016B 016B 016B INPUT PARAMETERS: CONFLICT = 0IMPLICIT INPUTS: R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1.2.3.4.5. RESPECTIVELY. **OUTPUT PARAMETERS:** 016B 016B 016B 016B CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED. IMPLICIT OUTPUTS: R2,3,4,5,6 PRESERVED COMPLETION CODES: NONE SIDE EFFECTS: NONE

COND1:: 05 05 016D COND2:: 016D 016E 05 COND2\_CLEANUP::

016E

05

RSB COND1\_CLEANUP:: RSB RSB

RSB

: RETURN TO MAIN ROUTINE : RETURN TO MAIN ROUTINE

: RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

SA RO RU SA

-

SA

In Co Pa Sy Pa Sy

PS Cri As Thi 52 Thi 74 51

SA

% - \$ - \$ TO 77

Th

MA

00D7

0106

EF 0000011A'EF 00000000'EF 04

00000000'EF

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 FORM_CONDS 5-SEP-1984 04:32:01
                                                                                                VAX/VMS Macro V04-00
EUETPSY.SRC]SATSSSO.MAR; 1
                                                                                                                                                     10
```

\*\*

```
.SBTTL FORM_CONDS
                            FUNCTIONAL DESCRIPTION:
                                                     FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                               THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                             CALLING SEQUENCE:
                                       BSBW FORM_CONDS
                             INPUT PARAMETERS:
                                       NONE
                             IMPLICIT INPUTS:
                                       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX T - TITLE TEXT FOR CONDX TABLE

CONDX TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX TAB - CONTEXT OF THE CONDX TABLE

CONDX TABLE

CONDX TABLE

CONDX TABLE
                             OUTPUT PARAMETERS:
                                       NONE
                             IMPLICIT OUTPUTS:
                                       NONE
                             COMPLETION CODES:
                                       NONE
                             SIDE EFFECTS:
                                       NONE
                          FORM_CONDS::
                                                     MSG1_INP_CTL, FAO_LEN, FAO_DESC, TESTNUM
                                       SFAO_S
                                                                                                  FORMAT CONDITIONS HEADER MSG
30
91
12
31
                                                     OUTPUT_MSG
#COND1_C,#NULL
                                                                                                  ... AND PRINT IT IS CONDITION 1 NULL ?
                                       BSBW
      01B0
01B3
                                        CMPB
                                       BNEQU
                                                                                                  NO -- CONTINUE
                                                      FORM_CONDSX
                                                                                                  YES -- SUBROUTINE IS FINISHED
                                        BRW
       0188
0188
0103
                          105:
                                       MOVAL CONDITANSGA : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO MOVE CONDITANSGB : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO MOVB  #CONDITC, MSG CTXT : SAVE CONDITION 1 CONTEXT FOR FAO MOV_VAL CONDITC, CONDITERS], MSG DATA1 ; GIVE COND 1 DATA VALUE TO FAO
DE
00
90
```

SATSSS50 V04-000	SATS FORM_	SYSTEM	SERVICE	TESTS SASCE	C 15 FC (SUCC 16-SEP-1984 5-SEP-1984	00:56:45 VAX/VMS Macro V04-00 Page 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1	11 (1)
14 00 03 00A2	12	01E2 01E5 01E8 01EA	354 355 356 357 358 20\$	BRW	WRITE_MSG2 #CONDZ_C,#NULL 20\$ FORM_CONDSX	FORMAT AND WRITE CONDITION 1 MSG IS CONDITION 2 NULL ? NO CONTINUE YES SUBROUTINE IS FINISHED	
00000000'EF 00000144'EF 00000000'EF 0000015E'EF43 00000000'EF 00	DE DO 90	01ED 01ED 01F8 0204 020B	359	MOVAL MOVL MOVB MOV_VAL	COND2_T,MSG_A COND2_TABER3],MSG_B #COND2_C,MSG_CTXT COND2_C,COND2_EER3],M	; SAVE ADDRESS OF CONDITION 2 TITLE FOR I ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR I ; SAVE CONDITION 2 CONTEXT FOR FAO ISG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO ; FORMAT AND WRITE CONDITION 2 MSG ; IS CONDITION 3 NULL ? ; NO CONTINUE	F AO F AO
14 00 03 0079	30 91 12 31	020B 020E 0211 0213	360 361 362 363 364 365 366 367 368 369 370	BRW	FORM_CONDSX	; YES SUBROUTINE IS FINISHED	
00000000'EF 00000204'EF 00000000'EF 00000229'EF44 00000000'EF 00	DE DO 90	0216 0221 0220 0234	368 369 370 371	MOVAL MOVL MOVB MOV VAL	COND3_T.MSG_A COND3_TABER4J.MSG_B #COND3_C.MSG_CTXT COND3_C.COND3_EER4J.M	; SAVE ADDRESS OF CONDITION 3 TITLE FOR I ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR I ; SAVE CONDITION 3 CONTEXT FOR FAO ASG_DATA1; GIVE COND 3 DATA VALUE TO FAO ; FORMAT AND WRITE CONDITION 3 MSG ; IS CONDITION 4 NULL ? ; YES SUBROUTINE IS FINISHED ; SAVE ADDRESS OF CONDITION 4 TITLE FOR	FAO
00000000'EF 00000258'EF 00000000'EF 0000025D'EF45 00000000'EF 04	90	0234 0237 023A 023C 0247 0253	371 372 373 374 375 376 377	BSBW CMPB BEQLU MOVAL MOVL MOVB MOV_VAL	WRITE MSG2 #COND4 C.#NULL FORM CONDSX COND4 T.MSG A COND4 TABER5].MSG B #COND4 C.MSG CTXT COND4 T.COND4 FER5] M	; FORMAT AND WRITE CONDITION 3 MSG ; IS CONDITION 4 NULL ? ; YES SUBROUTINE IS FINISHED ; SAVE ADDRESS OF CONDITION 4 TITLE FOR ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR ; SAVE CONDITION 4 CONTEXT FOR FAO (SG_DATA1; GIVE COND 4 DATA VALUE TO FAO	FAO
FD97° 14 14 21 00000000°EF 000002B6°EF 00000000°EF 146 00000000°EF 14	30 91 13 DE 00	0266 0269 026C 026E 0279	378 379 380 381 382 383 384 385	BSBQ CMPB BEQLU MOVAL MOVL MOVB MOV_VAL	FORM CONDSX COND4 T.MSG_A COND4 T.MSG_A COND4 C.MSG_CTXT COND4 C.MSG_CTXT COND4 C.COND4_E[R5],M WRITE MSG2 #COND5 C.#NULL FORM CONDSX COND5 T.MSG_A COND5 TABER6],MSG_B #COND5 C.MSG_CTXT COND5 C.COND5_E[R6],M WRITE MSG2	FORMAT AND WRITE CONDITION 4 MSG  IS CONDITION 5 NULL?  YES SUBROUTINE IS FINISHED  SAVE ADDRESS OF CONDITION 5 TITLE FOR  SAVE ADDR OF COND 5 CURR TEXT ELT FOR  SAVE CONDITION 5 CONTEXT FOR FAO  ISG DATA1: GIVE COND 5 DATA VALUE TO FAO	FAO
FD71°	30 05	028C 028C 028F 028F	386	BSBQ M_CONDSX: RSB	WRITE MSG2	SG DATA1 : GIVE COND 5 DATA VALUE TO FAO ; FORMAT AND WRITE CONDITION 5 MSG ; RETURN TO CALLER	

VC

.SBTTL VERIFY

FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$ASCEFC). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR\_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS\_CHECK MACRO); ERR\_EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR\_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX E.

**OUTPUT PARAMETERS:** 

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR\_EXIT OR SS\_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

SATSSS50 V04-000		SATS	SYSTEM	SERV	ICE TES	STS SASC	EFC (SUCC 16-SEP-1984) 5-SEP-1984	00:5 04:3	6:45 VAX/VMS Macro V04-00 Page 13 2:01 [UETPSY.SRC]SATSSS50.MAR;1 (1)
			0290 0290 0290	447	; ==				
	00000000°EF 03 FEF3	95 13 30	0290 0290 0296 0298	451 452 453 454	VERIFY:	TSTB BEQL BSBW	CFLAG 58 FORM_CONDS		SHOULD CONDITIONS BE PRINTED ? NO CONTINUE YES FMT & PRINT ALL CONDS FOR THIS T.C.
	00000119'EF 0000010C'EF 53 7C 53 01 0F	94 95 13 12 96 11	0290 0290 0290 0298 0298 0298 0298 0298	44490123455678901234566665	5\$:	CLRB CLRB TSTL BEQL CMPL BNEQ INCB	FLAGS ASCTOT R3 11\$ #1.R3 7\$		RE-INIT ALL FLAGS FOR NEXT TEST CASE CLEAR REFERENCE CNT FOR (SUBJECT) CLUST A EV FLAG GROUP HAVE PRIOR ASSOCIATION ? NO CONTINUE YES PRIOR ASSOCIATION WITH CLUSTER A ? NO MUST BE CLUSTER B
57	0000010C'EF 00000065'EF 07	96 DE 11	0280 0286 0280 028F	462 463 464	78:	INCB MOVAL BRB	ASCTOT CLUS_NAME_A,R7 9\$		NO MUST BE CLUSTER B YES INCR REF COUNT FOR CLUSTER A AND SET UP CLUSTER NAME FOR ASCEFC GO ISSUE PRELIMINARY SERVICE
57	00000079'EF	DE	02BF 02C6	466	98:	MOVA	i_US_NAME_B,R7	_	SET UP CLUSTER NAME FOR ASCEFC
5A	000002AE'EF45	00	02CE	468		MOVL SASČETÍ	EFNER5],R10 S EFN=R10, NAME=(R7),	PEŘ	EFN MUST BE IN R10 FOR LATER CALL M=PERMER23
57	00000065'8F 0E 067A 00000000'EF 03 0625	01 12 30 95 13	02E2 0310 0317 0319 0310 0322 0324 0327 0327 0333	466 467 468 470 471 473 475 476 477	110.	SS CHEC CMPL BNEQU BSBW TSTB BEQL BRW	R NORMAL #CLUS_NAME_A,R7 11\$ BUILD_CLUST EFLAG 11\$ VERIFYX		EFN MUST BE IN R10 FOR LATER CALL M=PERM[R2] CHECK SERVICE COMPLETION DID WE ASSOCIATE CLUSTER A? NO SKIP BUILDING OF CLUSTER A BUILD CLUSTER A IS AN ERROR BEING PROCESSED? NO CONTINUE YES RETURN IMMEDIATELY
00000255'EF44	0000010C'EF	83	0327	478	115:	SUBB3	ASCTOT, COND3_E[R4],R7	;	CALC. NO. OF ASCEFC'S TO BE ISSUED
	57 57 03 00E7	95 12 31	0334 0336 0338	479 480 481	1/8.	TSTB BNEQU BRW	R7 14\$ 25\$		ANY ASCEFC'S TO ISSUE ? YES CONTINUE NO GO ISSUE SUBJECT ASCEFC
	58 55 02 58	04 05 12 06	033B 033D 033F 0341	483 484 485 486	14 <b>\$</b> :	CLRL TSTL BNEQU INCL	R8 R5 16\$ R8		ASSUME SECOND COND 4 ELEMENT FIRST COND 4 ELEMENT? NO IT'S SECOND COND 4 ELEMENT YES USE R8 AS INDEX TO 2ND ELEMENT
5A 00 000	000002AE'EF48 00010D'EF 5A 000119'EF 00	D0 D0 E2	0343 0348 0352 035A	488 489 490 491	103:	MOVL MOVL BBSS SASCEFC	EFN[R8],R10 R10,OTHER_EFN #FLG_V_CLAOTHEV,FLAGS _S_EFN=R10, NAME=CLUS_I	NAME.	GET EFN OF 'OTHER' EV FLAG GROUP SAVE EFN OF 'OTHER' GROUP ; INDICATE A LATER SDACEFC IS NEEDED A. PERM=PERM[R2] ASSOC. 'OTHER' EV FLAG GROUP WITH CLUST A CHECK FOR NORMAL COMPLETION
	05F3 00000000°EF 03 059E	30 95 13 31	0336 0338 0338 0338 03330 03341 0343 0343 0354 03572 03A3 03A6 03A6 03B1 03B3 03B8	48834567890123456789 4884889012344999		SS_CHEC BSBW TSTB BEQL BRW	K NORMAL BUILD_CLUST EFLAG 20\$ VERIFYX		CHECK FOR NORMAL COMPLETION BUILD CLUSTER A IS AN ERROR BEING PROCESSED? NO CONTINUE YES RETURN IMMEDIATELY
00 00	57 02 6F 000119'EF 01	91 12 E2	03AE 03B1 03B3 03BB	499 500 501 502	20\$:	CMPB BNEQU BBSS \$CREPRC	#2 R7 25\$ #FLG_V_CLAPROC,FLAGS, _S PRCNAM=CREPRN, IMAG	+1 = I M	MUST WE DO ANOTHER ASCEFC? NO GO ISSUE SUBJECT ASCEFC; INDICATE A LATER \$DACEFC IS NEEDED AGNAM, -

ATSSS50 04-000	SATS SYSTEM SE VERIFY	RVICE TES	S SASCE	F 15 FC (SUCC 16	-SEP-1984 -SEP-1984	00 : 56 : 4 04 : 32 : 0	5 YAX/VI	MS Macro V SY.SRC]SAT	04-00 SSS50.MAR;1	Page 1
	03BB 50 03ED 50 03ED 50 041B 50 0422 50	3 4 5 6 7 25 <b>\$</b> :	SS_CHECK SHIBER_S	MBXUNT=MB	EXUNIT, QUO	TA=QUO	TALIST SSUE ASCE	C IN A CR ETION OF CREATED	EATED PROCES CREPRC PROCESS DOES	S SASCEFC
	0422 50 0422 50		SYSTEM	SERVICE CAL	L WHICH IS	THE SU	JBJECT OF	THIS TEST	CASE *****	
00000000°8F 50 61 00000000°EF 00000000°8F 00000000°EF 50	0422 51 0422 51 0422 51 0422 51 0423 51 13 0446 51 00 0448 51 00 0453 51 0454 51	0123456789 308:	SASCEFC.  CMPL BEQLU MOVL MOVL	S EFN=EFNER	RS], - NAME_A, - NTR2] RMAL .,EXPV	; C(	DDE RECEIVES CON'DAD UP EXI	VED = CODE	EXPECTED ?	
	04A9 52 04A9 52 04A9 52	0 : 1 : ENSU! 2 : BY	RE THAT S SETTING -95 OR 12	SETEF'S CAN THE TWO HI- 26-127).	BE PROPERL ORDER FLAG	Y ISSUE S OF TH	ED ON CLU HE CLUSTE	STER A		
57 000002AE'EF45 57 1E	04A9 52 04A9 52 00 04A9 52 00 04B1 52 04B4 52 04BD 52 04EB 52 04ED 53 04F6 53 0524 53	4 ; 6 7	MOVL ADDL2 \$SETEF	EFNCR5],R7 #30,R7 EFN=R7 WASCLR		; C(	OMPUTE 2N	D-TO-HIGHE SET FLAG	OF CLUSTER ST EV FLAG N IN CLUSTER	10.
57	06 04EB 52 04ED 53 04F6 53	9	INCL	R7 S EFN=R7 C WASCLR		; P(	DINT REG	7 TO HIGHE R FLAG FOR	N CLEAR (FROST EV FLAG ) R GOOD MEASUR R CONDITION	IN CLUSTE
	0524 53	3 : SET	UP REG	TO CONTAIN	THE MASK	OF EXP	ECTED EVE	NT FLAG SE	TTINGS	
04 00000119'EF 02 57 07	0524 53 E0 0524 53 D4 052C 53 11 052E 53	5 6 7 8 40 <b>\$</b> :	BBS CLRL BRB	#FLG_V_MKFO R7 45\$	ORMED, FLAGS	,40\$ ; ; SI	BRANCH 11 UBJECT AS D SET 2 M	CEFC GETS DRE MASK B	K FORMED NEW CLUSTER: DITS (FOR SET	O MASK
57 00000111'EF	DO 0530 53	9 0 45 <b>\$</b> :	MOVL	CLUS_MASK,R	R7	; US	SE EXISTI	NG CLUS_MA	SK	
57 02 1E 03	0530 53 0530 53 0537 54 0537 54 0530 54	2	INSV SREADEF	MAB11, M30, M S EFN=EFNER	2 R7 151, STATE=	CLUS_S	JRN ON 2 H	HI-ORDER P	ASK BITS FOR	SETEF'S
2E 50	E8 0550 54 0553 54 0581 54 01 0581 54	5	BLBS SS_CHECK	RO,50\$		: C(	ONTINUE I	NORMAL C	F CLUSTER A OMPLETION HINATE TEST P	ODULE
57 00000115 EF 68 00000000 EF 57 00000000 EF 00000115 EF	0581 54 0581 54 13 0588 54 00 058A 54 00 0591 55 059C 55 05F5 55	6 50\$: 7 8 9 0 1 2 55\$:	CMPL BEQLU MOVL MOVL ERR_EXIT	CLUS_STATE, 55\$ R7,EXPV CLUS_STATE, LONG, <pre-< td=""><td>,R7 ,RECV -EXISTING C</td><td>: 19 YE NO</td><td>CLUSTER CON CON CON CON CON CON CON CON CON CON</td><td>A STATE = TINUE WITH EXPECTED D VALUES, T OBTAINED</td><td>THAT EXPECT VERIFICATION AND EXIT THEN EXIT AFTER ASCEP</td><td>ED ?</td></pre-<>	,R7 ,RECV -EXISTING C	: 19 YE NO	CLUSTER CON	A STATE = TINUE WITH EXPECTED D VALUES, T OBTAINED	THAT EXPECT VERIFICATION AND EXIT THEN EXIT AFTER ASCEP	ED ?
	05F5 55 05F5 55	5	VERIFY	THE ASCEFC FOR	REFERENCE R EACH ASCE	COUNT, FC ISSI	THE FOLL	OWING CODE	SE.	
	05F5 55 05F5 55 05F5 55 0603 55 0631 55	6 7 8 9 60\$:		S EFN=EFNER				TE SUBJECT		

SATSSS50 V04-000	SAT	SYSTEM S	ERVICE	TESTS SAS	G 15 SCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 15 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1 (1)
0A 00000119'EF	01 E4	0631 5 0639 5	60	BBSC	#FLG_V_CLAPROC, FLAGS, 62\$
05 00000119'EF	00 E4 05 11	0639 0641 5	62 63 64 62 <b>\$</b> :	BBSC	#FLG_V_CLAOTHEV, FLAGS, 63\$; ISSUE ANOTHER DACEFC IF NEC. 64\$; ALL FLAGS CLEAR; REF COUNT 0
01	79 31	0643	65	BRW	808 ; NEED A WORD'S WORTH OF BRANCH
02	200 31	0646 0649	60 61 62 63 64 62\$: 65 66 63\$: 67 68 64\$:	BRW	35\$ ; NEED A WORD'S WORTH OF BRANCH
		0649 5	71	AT THIS PO ISSUE ANOT	OINT, ASCEFC REFERENCE COUNT SHOULD BE O. THER ASCEFC TO CHECK PERM/TEMP SETTING OF CLUSTER A
2E	50 E8	0639 0641 0643 0643 06446 0649 0649 0649 0649 0649 0649 064	72 ; 73 ; 74 ; 75 ; 76 ; 77 ; 78 65\$:	SASCEF SS_CHE SREADE BLBS	C S EFN=EFN[R5], NAME=CLUS_NAME_A ; ONE MORE ASSOCIATE CR NORMAL ; CHECK IT F S EFN=EFN[R5], STATE=CLUS_STATE ; READ CLUSTER A R0,65\$ ; CONTINUE IF NORMAL COMPLETION CK NORMAL ; USE SS_CHECK TO TERMINATE TEST MODULE
00000176166	12 05	06D4 06D4 5	78 65\$:		
0000013C'EF	42 D5 02 12 57 D4	06DB 5 06DD 5 06DF 5	80 81 82 70\$:	TSTL BNEQU CLRL	PERMER2] 70\$ : YES KEEP EXPECTED STATE VALUE FRM ABOVE R7 : NO EXPECT A ZERO CLUSTER
57 00000115	EF D1	06DF 5	83	CMPL	CLUS_STATE,R7 : CLUSTER A STATE = THAT EXPECTED ? : YES GO FINISH UP
00000000°EF 00000115°	EF D1 13 57 D0 EF D0	06E8 06EF 06FA 0745	85 86 87	MOVL MOVL ERR_EX	CLUS_STATE,R7 : CLUSTER A STATE = THAT EXPECTED ?  ?1\$ : YES GO FINISH UP  R7.EXPV : NO LOAD EXPECTED AND  CLUS_STATE,RECV : RECEIVED VALUES, THEN EXIT  IT LONG, <incorrect after="" cluster="" dacefc's="" state=""></incorrect>
		0745 0745 0752 0780 078E	80 81 82 70\$: 83 84 85 86 87 88 71\$: 89 90		C S NAME=CLUS_NAME_A  CR NORMAL  C S EFN=EFN[R5]  CR NORMAL  CR NORMAL  CR NORMAL  CR NORMAL
01	8D 31	07BC 5	93	BRO	VERIFYX : THIS TEST CASE IS COMPLETE

SATSSS50 V04-000	SATS SYST	TEM SERVICE TEST	S SASCEFC (SUCC 16-SEP-19) 5-SEP-19	84 00:56:45 VAX/VMS Macro V04-00 Page 16 84 04:32:01 EUETPSY.SRCJSATSSS50.MAR;1 (1)
	07BF 07BF 07CE 07FC	F 595 80\$:		WAKE CREATED PROCESS TO GET DACEFC ISSUED CHECK FOR NORMAL STATUS CODE  ##10\$ READVBLK, -  BXBUFF
FDDB	082 082 31 085	5 600 5 601 3 602	SS CHECK NORMAL BRO 60\$	CHECK FOR NORMAL STATUS CODE GO CHECK FOR MORE DACEFC'S
2E 50	0856 0869 E8 0869	6 603 85\$: 6 604 9 605 9 606	SREADEF_S EFN=OTHER_EFN, S BLBSRO_86\$	TATE=CLUS STATE  : READ & CHECK CLUSTER BEFORE DACEFC  : CONTINUE IF NORMAL COMPLETION  : USE SS_CHECK TO TERMINATE TEST MODULE
57 00000115'EF 68 00000000'EF 57	089/ 01 089/ 13 08A1 00 08A3	A 608 86\$: A 609 1 610	CMPL CLUS_STATE,R7	CLUSTER A STATE = THAT EXPECTED ?
00000000'EF 57 00000000'EF 00000115'EF	089/ 089/ 13 08A1 00 08A3 00 08A4 08B5	A 612 5 613 E 614 87\$:	BEQLU 878 MOVL R7.EXPV MOVL CLUS STATE, RECV ERR_EXIT LONG, < PRE-EXISTIN	NO LOAD EXPECTED AND RECEIVED VALUES, THEN EXIT G CLUSTER STATE NOT OBTAINED AFTER DACEFC>
FCE5	090E 091E 31 0949 0940	E 615 B 616	\$DACEFC_S EFN=OTHER_EFN SS_CHECK_NORMAL BRU 60\$	DISASSOC 'OTHER' EV FLAG GROUP FROM CLUS A CHECK FOR NORMAL COMPLETION GO CHECK FOR MORE FLAGS
	05 0940	C 618 VERIFYX:	RSB	; RETURN TO CALLER

```
SATSSS50
V04-000
```

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SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
                                                  .SBTTL VFY_CLEANUP
          FUNCTIONAL DESCRIPTION:
                                     VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERREXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.
                                      CALLING SEQUENCE:
                                                   BSBW VFY_CLEANUP
                                      INPUT PARAMETERS:
                                                   NONE
                                      IMPLICIT INPUTS:
                                                  R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX E.
                                      OUTPUT PARAMETERS:
                                                   NONE
                                      IMPLICIT OUTPUTS:
                                                   NONE
                         660
661
662
663
                                      COMPLETION CODES:
                                                   EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                         664
665
666
667
                                      SIDE EFFECTS:
                                                   SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
                                                   (VIA RSB) IF ERROR ENCOUNTERED.
                                 VFY_CLEANUP::
                                                   SOLCEFC S NAME = CLUS NAME A
SOLCEFC S NAME = CLUS NAME B
SS CHECK NORMAL
                                                                                                                       ; CLEAR PERM INDICATORS IF PRESENT ...
                                                                                                                          CHECK COMPLETION
  05
                                                                                                                          RETURN TO CALLER
```

SA

SIV

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 BUILD_CLUST SUBROUTINE 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSSSO.MAR;1
                                                 .SBTTL BUILD_CLUST SUBROUTINE
                                                 BUILD_CLUST SUBROUTINE
                                                THIS SUBROUTINE CREATES A 32-BIT CLUSTER MASK BY CONCATENATING THE LOW-ORDER BYTES OF REGS R2-R5. IT THEN SETS CLUSTER A EQUAL TO THE MASK BY ISSUING THE PROPER COMBINATION OF 32 SETEF/CLREF'S.
```

INPUTS:

R2,R3,R4,R5 - CONDITION TABLE INDEX VALUES

ANY EFN IN CLUSTER A R10

OUTPUTS:

LONGWORD CONTAINING THE CREATED CLUS\_MASK CLUSTER MASK.

THE SUBJECT EVENT FLAG CLUSTER, UPDATED TO LOOK LIKE CLUS MASK. CLUSTER A -

FLG\_V\_MKFORMED - BIT IN FLAGS BYTE IS SET, IND-ICATING CLUS\_MASK IS FORMED.

**VOLATILE REGISTERS:** 

RO. R1. R8. R9

03	00000119'EF		02 0A5	E3	0996 0996 099E 09A1	713 714 715	BUILD.	BBCS BRU	#FLG_V_MKFORMED,FLAGS,10\$ BUILD_CLUSTX :	CONT IF CLUS MASK NOT YET FORMED MASK ALREADY FORMED; JUST EXIT
	00000111'EF 00000112'EF 00000113'EF 00000114'EF		55 54 53 52	90 90 90 90	09A1 09A8 09AF 09B6 09BD	717 718 719 720 721		MOVB MOVB MOVB	R5,CLUS_MASK R4,CLUS_MASK+1 R3,CLUS_MASK+2 R2,CLUS_MASK+3	BUILD CLUSTER MASK
					09BD 09BD	722	THE	FOLLOWING	CODE SETS CLUSTER A EQUAL	TO CLUS_MASK
	58		5A 59	00	09BD 09C0	724 725	205:	MOVL	R10,R8	ESTABLISH FIRST EFN (EVENT FLAG NO.) INIT OFFSET INTO CLUS_MASK
3A	00000111'EF		59	EO	0962	726 727 728	209.	BBS	R9, CLUS_MASK, 30\$	ISSUE SSETEF IF BIT FOR THIS FLAG IS SET
		68	50	E8	09D3 09D6	729 730 731	30\$:	BLBS SS_CHECI	R9.CLUS_MASK,30\$ 5 EFN=R8 R0.40\$ C NORMAL	ISSUE \$SETEF IF DIT FOR THIS FLAG IS SET OTHERWISE, ISSUE \$CLREF IF NORMAL STATUS, PROCESS NEXT EVENT FLAG USE SS_CHECK TO TERMINATE TEST MODULE
		2E	50	E8	0A04 0A0D 0A10 0A3E	732 733 734	405:	SSETEF_S BLBS SS_CHECK	S EFN=R8 RO,40\$ C NORMAL	SET CURRENT EVENT FLAG  IF NORMAL STATUS, PROCESS NEXT EVENT FLAG  USE SS_CHECK TO TERMINATE TEST MODULE

SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 19 BUILD\_CLUST SUBROUTINE 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1 (1)

SA

FF7C 59 01 1F 9D 0A40 737 ACBB #31,#1,R9,20\$ GET NEXT EFN ACBB #31,#1,R9,20\$ GO DO NEXT EVENT FLAG RSB COA47 740 END RSB RSB RSB RETURN TO CALLER

SATSSS50 Symbol table	SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 5-SEP-1984 04:32:01 CUETPSY.SRCJSATSSS50.MAR;1	20
S\$\$\$ S\$\$CHARS S\$\$CHARS3 S\$\$CHARS3 S\$\$CHARS5 S\$\$CHARS6 S\$CHARS6 S\$\$CHARS6 S\$\$	= 000008BF R 04 COMPS TAB = 00000024 COMPS TAB = 00000024 COMPS TAB = 00000024 COMPS TAB = 00000000 COMPS TAB = 0000000 COMPS TAB = 00000000 COMPS TAB = 000	

```
SA
```

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
SATSSS50
Symbol table
SSS_NORMAL
SSS_WASCLR
SUCCESS
SYSSASCEFC
SYSSCUREF
SYSSCMKRNL
                                         *******
                                                           *******
                                         *******
                                         *******
                                                     GX
                                         ******
                                                     GX
                                         *******
SYSSCREMBX
                                                     GX
                                         ******
SYS$CREPRC
                                         ******
                                                     GX
SYS$DACEFC
                                         *******
                                                     GX
SYS$DELMBX
                                         *******
                                                     GX
SYS$DLCEFC
                                         *****
                                                     GX
SYS$FAO
                                         ******
SYSSGETCHN
                                         ******
SYS$HIBER
                                         ******
SYSSQIOW
                                         ******
                                                     GX
SYS$READEF
                                         ******
SYS$SETEF
                                         ******
                                                     GX
SYS$SETPRN
                                         ******
                                                     GX
SYS$SETPRV
                                         *******
                                                     GX
SYS$WAKE
                                         ******
                                                     GX
TESTNUM
                                         ******
TEST_MOD_NAME_D
TEST_MOD_SUCC
                                         00000000 RG
                                         00000009 R
TMD ADDR
TM_CLEANUP
TM_SETUP
VERIFY
                                         ******
                                         00000159 RG
                                         00000000 RG
                                         00000290 RG
                                         0000094C R
VERIFYX
                                         0000094D RG
VFY_CLEANUP
WORD
                                      = 00000002
WRITE_MSG2
                                                             Psect synopsis !
PSECT name
                                                                PSECT No.
                                                                              Attributes
                                        Allocation
                                                                       0.)
                                                                                                              LCL NOSHR NOEXE
                                                                                                                                         NOWRT NOVEC BYTE
   ABS
                                        00000000
                                                                                        USR
                                                                                                       ABS
                                                                                                      ABS
                                                                                        USR
                                                                                                                                                 NOVEC BYTE
SABS$
                                                                                               CON
                                                                                                                             EXE
                                                                              NOPIC
                                                                                                                                    RD
                                        00000000
                                                                                                              LCL
                                                                                                                   NOSHR
                                                                                               CON
                                        000000CF
000002B7
                                                                                        USR
                                                                                                                   NOSHR NOEXE
                                                                              NOPIC
RODATA
                                                                                                              LCL
                                                                                                                                         NOWRT
                                                                                                                                                NOVEC LONG
                                                                                                                   NOSHR NOEXE
                                                                                               CON
                                                                              NOPIC
                                                                                        USR
                                                                                                       REL
                                                                                                                                    RD
                                                                                                                                            WRT NOVEC LONG
RWDATA
                                                                                                              LCL
                                                                                                                             EXE
                                                                                                                                    RD
SATSSS50
                                                                                               CON
                                                                                                              LCL NOSHR
                                                                                                                                            WRT NOVEC BYTE
                                                        ! Performance indicators
                                                  CPU Time
                                                                    Elapsed Time
Phase
                               Page faults
----
                                                                    00:00:00.35
00:00:01.72
00:00:17.19
00:00:00.73
00:00:03.22
00:00:00.12
                                                  00:00:00.04
Initialization
                                                 00:00:00.68
00:00:09.72
00:00:00.65
00:00:02.64
00:00:00.12
Command processing
                                        302
Pass 1
Symbol table sort
Pass 2
Symbol table output
```

SATSSS50
VAX-11 Macro Run Statistics

SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 22 (1)

The working set limit was 1500 pages.
52689 bytes (103 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 370 non-local and 89 local symbols.
740 source lines were read in Pass 1, producing 30 object records in Pass 2.
51 pages of virtual memory were used to define 41 macros.

Macro library statistics !

Macro library name

\$255\$DUA28:[SHRLIB]UETP.MLB:1
-\$255\$DUA28:[SYS.OBJ]LIB.MLB:1
-\$255\$DUA28:[SYSLIB]STARLET.MLB:2
TOTALS (all libraries)

Macros defined

778 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS50/OBJ=OBJ\$:SATSSS50 MSRC\$:SATSSS50/UPDATE=(ENH\$:SATSSS50)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE

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